MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt (m)	Depth (m)	Quantity	Remarks
		Rain Water Harvesting pit							
			Sqm	13	7.065			91.85	
					(3.14*3*3)/4				
							TOTAL	948.11	

Item no.07		**Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfication sand as per the directions of the Engineer-in-charge of the work .**							
		Sanjaya Dabha							
		LHS							
0	8.3		Sqm	1	8.3	0.9		7.47	
8.3	38.3		Sqm	1	30	0.9		27.00	
38.3	57.9		Sqm	1	19.6	0.9		17.64	
57.9	65		Sqm	1	7.1	0.9		6.39	
65	95		Sqm	1	30	0.9		27.00	
95	125		Sqm	1	30	0.9		27.00	
125	155		Sqm	1	30	0.9		27.00	
155	185		Sqm	1	30	0.9		27.00	
185	215		Sqm	1	30	0.9		27.00	
215	223.2		Sqm	1	8.2	0.9		7.38	
223.2	247.5		Sqm	1	24.3	0.9		21.87	
		Missing Cover Slab	Sqm	65	0.9	0.6		35.10	
							TOTAL	257.85	

Item no.08		**Providing and fixing MS Grating 260x260 mm and as per the directions of the Engineer-in-charge of the work .**							
		Sanjaya Dabha							
		LHS	Nos	20				20.00	
							Total	**20.00**	

Item no.09		**Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete. and as per the directions of the Engineer-in-charge of the work .**							
		Sanjaya Dabha							
		LHS	Nos	63.00				63.00	
							Total	**63.00**	
							Quantity Limited to	**60.00**	

Item no.10		**Providing and applying ready mix priming coat over oncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications and as per the directions of the Engineer-in-charge of the work .**							
		Sanjaya Dabha							
		LHS							
0	8.3		Sqm	1	8.3		0.45	3.74	
8.3	38.3		Sqm	1	30		0.45	13.50	
38.3	57.9		Sqm	1	19.6		0.45	8.82	
57.9	65		Sqm	1	7.1		0.45	3.20	

Contactor

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt (m)	Depth (m)	Quantity	Remarks
65	95		Sqm	1	30		0.45	13.50	
95	125		Sqm	1	30		0.45	13.50	
125	155		Sqm	1	15		0.45	6.75	33.75
							Total	63.00	NDD DETAIL) 30/8/19. 30/8
Item no 11		**Providing and applying spray painting in two coats (excluding priming coat) over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. and as per the directions of the Engineer-in-charge of the work .**							
		Sanjaya Dabha							
		LHS							
0	8.3		Sqm	1	8.3		0.45	3.74	
8.3	38.3		Sqm	1	30		0.45	13.50	
38.3	57.9		Sqm	1	19.6		0.45	8.82	
57.9	65		Sqm	1	7.1		0.45	3.20	
65	95		Sqm	1	30		0.45	13.50	
95	125		Sqm	1	30		0.45	13.50	
125	155		Sqm	1	15		0.45	6.75	
							Total	63.00	NDD DETAIL) 30/8/19.
Item no 12		**Providing 100mm and down size nominal size and as per the directions of the Engineer-in-charge of the work .**							
			Cum	**13**	**7.065**		**1.5**	**137.77**	
					(3.14*3*3)/4				
							Total	137.77	
Item no 13		**Providing 40mm and down size nominal size and as per the directions of the Engineer-in-charge of the work .**							
			Cum	**13**	**7.065**		**0.6**	**55.11**	
					(3.14*3*3)/4				
							Total	55.11	
Item no 14		**Providing 20mm and down size nominal size and as per the directions of the Engineer-in-charge of the work .**							
			Cum	**13**	**7.065**		**0.4**	**36.74**	
					(3.14*3*3)/4				
							Total	36.74	
Item no 15		**Providing Fine aggrgate 2.36mm nominal size and as per the directions of the Engineer-in-charge of the work .**							
			Cum	**13**	**7.065**		**0.3**	**27.55**	
					(3.14*3*3)/4				
							Total	27.55	
Item no 16		**Laying Reinforced cement concrete pipe NP4 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. and as per the directions of the Engineer-in-charge of the work .**							

30/8/19

Contactor

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

PMC

N.D.

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer Kodigehalli Sub Division Yelahanka Zone, B... Bangalore

MEASUREMENT SHEET - 1st and FINAL BILL									
Chainage		Description of Item	Unit	No	Length	Breadt	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
			Sqm	40				40.00	
							Total	40.00	
Item no 17		Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification and as per the directions of the Engineer-in-charge of the work .							
		Qty Vide From item no 1	Cum					578.66	
								578.66	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

Contractor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to drains of Amruthanagara main road(Sanjay Dhabha Road) in ward No.07, Byatarayanapura

Measurements Taken On :

ABSTRACT OF MEASUREMENT SHEET - 1st and FINAL BILL

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No. 1	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. and as per the directions of the Engineer-in-charge of the work .	Cum	591.21			
	present Qty	Cum	591.21			
	Previous Bill Qty	Cum	-			
	Total	Cum	591.21			
	Tender Qty	Cum	578.66			
	Now to be paid	Cum	591.21			
	Quantity Limited to	Cum	578.66	166.42	96300.60	
Item No. 02	Removing & resetting of Kerb Stones and as per the directions of the Engineer-in-charge of the work .	No	248.11			
	present Qty	No	248.11			
	Previous Bill Qty	No	-			
	Total	No	248.11			
	Tender Qty	No	229.60			
	Now to be paid	No	248.11			
	Quantity Limited to	No	229.60	65.72	15089.31	
Item No. 03	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . and as per the directions of the Engineer-in-charge of the work .	Cum	47.82			
	present Qty	Cum	47.82			
	Previous Bill Qty	Cum	-			
	Total	Cum	47.82			
	Tender Qty	Cum	42.12			
	Now to be paid	Cum	47.82			
	Quantity Limited to	Cum	42.12	5159.02	217297.92	

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

Contractor

PMC

A.E.E. N.D.

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bang

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No. 04	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	113.79			
	present Qty	Cum	113.79			
	Previous Bill Qty	Cum	-			
	Total	Cum	113.79			
	Tender Qty	Cum	96.86			
	Now to be paid	Cum	113.79			
	Quantity Limited to	Cum	96.86	6371.66	617158.99	
Item No.05	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Tonne	5.86			
	present Qty	Tonne	5.86			
	Previous Bill Qty	Tonne	-			
	Total	Tonne	5.86			
	Tender Qty	Tonne	5.83			
	Now to be paid	Tonne	5.86			
	Quantity Limited to	Tonne	5.83	64243.42	374539.14	
Item No.06	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and as per the directions of the Engineer-in-charge of the work .	Sqm	948.11			
	present Qty	Sqm	948.11			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	948.11			
	Tender Qty	Sqm	952.85			
	Now to be paid	Sqm	948.11	387.96	367826.82	

367828.75

Contractor

Assistant Executive Engineer, R.R. Nagar Sub-Division, KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No.07	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfication sand as per the directions of the Engineer-in-charge of the work .	Sqm	257.85			
	present Qty	Sqm	257.85			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	257.85			
	Tender Qty	Sqm	258.30			
	Now to be paid	Sqm	257.85	2100.00	541485.00	
Item No.08	Providing and fixing MS Grating 260x260 mm and as per the directions of the Engineer-in-charge of the work .	Nos	20.00			
	present Qty	Nos	20.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	20.00			
	Tender Qty	Nos	20.00			
	Now to be paid	Nos	20.00	89.00	1780.00	
Item No.09	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete. and as per the directions of the Engineer-in-charge of the work .	Nos	63.00			
	present Qty	Nos	63.00			
	Previous Bill Qty	Nos	-			
	Total	Nos	63.00			
	Tender Qty	Nos	60.00			
	Now to be paid	Nos	63.00			
	Quantity Limited to	Nos	60.00	385.84	23150.40	
Item No.10	Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm	63.00			
	present Qty	Sqm	63.00			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	63.00			
	Tender Qty	Sqm	129.15			
	Now to be paid	Sqm	63.00	27.56	1736.28	

Contractor

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No.11	Providing and applying spray painting in two coats (excluding priming coat) over oncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. and as per the directions of the Engineer-in-charge of the work .	Sqm	63.00			
	present Qty	Sqm	63.00			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	63.00			
	Tender Qty	Sqm	129.15			
	Now to be paid	Sqm	63.00	69.96	4407.48	
Item No.12	Providing 100mm and down size nominal size and as per the directions of the Engineer-in-charge of the work .	Cum	137.77			
	present Qty	Cum	137.77			
	Previous Bill Qty	Cum	-			
	Total	Cum	137.77			
	Tender Qty	Cum	137.77			
	Now to be paid	Cum	137.77	750.00	103325.63	
Item No.13	Providing 40mm and down size nominal size and as per the directions of the Engineer-in-charge of the work .	Cum	55.11			
	present Qty	Cum	55.11			
	Previous Bill Qty	Cum	-			
	Total	Cum	55.11			
	Tender Qty	Cum	55.11		49599.00	
	Now to be paid	Cum	55.11	900.00	49596.30	
Item No.14	Providing 20mm and down size nominal size and as per the directions of the Engineer-in-charge of the work .	Cum	36.74			
	present Qty	Cum	36.74			
	Previous Bill Qty	Cum	-			
	Total	Cum	36.74			
	Tender Qty	Cum	36.74		40414.00	
	Now to be paid	Cum	36.74	1100.00	40411.80	
Item No.15	Providing Fine aggrgate 2.36mm nominal size and as per the directions of the Engineer-in-charge of the work .	Cum	27.55			
	present Qty	Cum	27.55			
	Previous Bill Qty	Cum	-			
	Total	Cum	27.55			
	Tender Qty	Cum	27.55		22040	
	Now to be paid	Cum	27.55	800.00	22042.80	

Contractor

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

Assistant Executive Engineer

Kodigehalli Sub-Division, Yelahanka Zone, B.B.M.P. Bangalore.

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No.16	Laying Reinforced cement concrete pipe NP4 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Sqm	40.00			
	present Qty	Sqm	40.00			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	40.00			
	Tender Qty	Sqm	40.00			
	Now to be paid	Sqm	40.00	3852.04	154081.60	
Item No.17	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification and as per the directions of the Engineer-in-charge of the work .	Cum	578.66			
	present Qty	Cum	578.66			
	Previous Bill Qty	Cum	-			
	Total	Cum	578.66			
	Tender Qty	Cum	578.66			
	Now to be paid	Cum	578.66	106.00	61337.96	
				SUB TOTAL AMOUNT	2691568.02	
				Add KRIDL @ 10%	269156.80	
				Labour Cess @ 1%	26915.68	
				TOTAL AMOUNT	2987640.50	

Contractor

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

PMC

AssistantEngineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division